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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

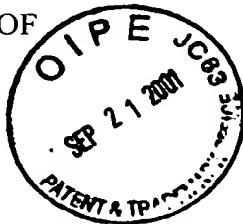
TECH CENTER 1600/2900

In re PATENT APPLICATION OF

James Robl et al.

Application No. 09/260,468

Filed: March 2, 1999



Group Art Unit: 1632

Examiner: J. Martin

Title: EMBRYONIC OR STEM-LIKE CELL LINES PRODUCED BY CROSS-SPECIES NUCLEAR TRANSPLANTATION AND METHODS FOR ENHANCING EMBRYONIC DEVELOPMENT BY GENETIC ALTERATION OF DONOR CELLS OR BY TISSUE CULTURE CONDITIONS

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AMENDMENT AND RESPONSE

Hon. Commissioner of Patents
Washington, D.C. 20231

Sir:

In response to the Office Action dated June 21, 2001, please amend the above identified application as follows.

In the Claims

Please enter the following amended claim:

1. (Twice Amended) A method of producing embryonic stem-like cells, wherein said cells comprise a nucleus derived from an adult differentiated cell and mitochondria from an oocyte of a species other than said adult differentiated cell, comprising the following steps:

- (i) inserting a differentiated human or mammalian cell or (cell nucleus) into an enucleated animal oocyte, wherein such oocyte is derived from a different animal species than the human or mammalian cell under conditions suitable for the formation of a nuclear transfer (NT) unit;
- (ii) activating the resultant nuclear transfer unit;
- (iii) culturing said activated nuclear transfer unit until greater than the 2-cell developmental stage;
- (iv) disassociating said activated nuclear transfer unit; and